



PACKET PROCESSOR WITH MULTI-LEVEL POLICING LOGIC

ABSTRACT OF THE DISCLOSURE

A switch includes a backplane and multiple packet processors. One or more packet processors include multi-level policing logic. The packet processor receives a packet and classifies the packet into multiple policeable groups. The packet is compared against bandwidth contracts defined for the policeable groups. Nested lookups are performed for the packet in a policing database to identify the multiple groups and to retrieve policing data for the multiple policeable groups. The policing results, which may be combined into a single policing result by taking the worst case policing result, are applied to disposition logic as recommendations, and are combined with other disposition recommendations to make a disposition decision for the packet.

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